

**WHAT IS CLAIMED IS:**

1. A method of sharing a program using target board identifications (IDs) in  
5 a mobile communication system, comprising the steps of:  
executing a shared execution file for a plurality of target boards in the system  
when power is supplied to the system;  
reading a target board ID of each target board;  
initializing target board hardware according to the target board ID;  
10 initializing an operating system (OS) for each target board using the target board  
ID; and  
branching into a sub-routine for each target board according to the target board  
ID and executing an application program for the target board.
- 15 2. The method of claim 1, wherein the OS initialization varies according to  
the hardware structure and running conditions of each target board.
3. The method of claim 1, wherein an application program for each target  
board according to the function of the target board is stored as part of a single master  
20 application program and executed in the application execution step.

4. The method of claim 1, wherein common functions of the target boards are incorporated into the shared execution file.

5. The method of claim 1, wherein different functions of the target boards are implemented in branch sub-routines according to the target board IDs.

6. A method of sharing a program in a mobile communication system, comprising the steps of:

storing a master execution file in a memory, said master execution file compiled to contain program code to operate a plurality of target boards of the mobile communication system;

executing the master execution file for the plurality of target boards in the system when power is supplied to the system;

reading a target board identification (ID) of each target board;

initializing target board hardware according to the target board ID and the master execution file;

initializing an operating system (OS) for each target board using the target board ID and master execution file; and

branching into a sub-routine for each target board according to the target board ID and executing an application program of the master execution file for each target board.

7. The method of claim 6, wherein the OS initialization varies according to the hardware structure and running conditions of each target board.

8. The method of claim 6, wherein an application program is compiled into the master execution file for each target board according to the function of the target board and executed in the application execution step.

9. The method of claim 6, wherein common functions of the target boards are incorporated into the master execution file.

10. The method of claim 6, wherein different functions of the target boards are implemented according to the target board IDs in branch sub-routines of the master execution file.

11. A system for sharing a program in a mobile communications system having a control unit and a plurality of target boards, comprising:

wherein the control unit stores an execution file compiled to contain program code to operate each of the plurality of target boards.

12. The system for sharing a program in a mobile communications system of claim 11, wherein each of the plurality of target boards is assigned an identification (ID) code that the control unit reads and executes subroutines of the execution file according

to the ID code of the target board.